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Imagery Analysis Report

Severodvinsk Naval Base & Shipyard 402, Severodvinsk, USSR Precision Plot, Functional Analysis, & Berthing Space Delineation

Declass Review by NIMA/DOD

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	ERRATUM FOR DDI/IAR-83018	
25X1	The following changes should be made to the above referenced report, DDI/IAR-83018, Severodvinsk Naval Base and Shipyard 402, Severodvinsk, USSR, Precision Plot Functional Analysis, and Berthing Space Delineation, a. Reference page (page 12), delete effectively the entire Documents reference section.	25X1
25X1	b. Change overall classification of report to read TOP SECRET	

TOP SECRET

GROUP | Excluded from automatic ongrading and declassificatio

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SEVERODVINSK NAVAL BASE AND SHIPYARD 402
SEVERODVINSK, USSR
PRECISION PLOT, FUNCTIONAL ANALYSIS, AND BERTHING SPACE DELINEATION

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INTRODUCTION

The Severodvinsk Naval Base and Shipyard 402 complex at Severodvinsk, USSR (64-35N 039-50E) is located approximately 17 mm east of Arkhangelsk at the southeastern extremity of Dvinskays Bay. The complex consists of five main areas. They are: (1) the Nuclear Submarine Special Support Facility; (2) Yagry, Island Naval Repair Facility; (3) the Main Shipyard; (4) West Basin Area; and (5) the Naval Missile Storage and Handling Facility (see Figures 3 through 8).

The purpose of this report is to provide a detailed mensural and functional analysis of these facilities and to assign berthing space numbers to the nearly four miles of linear berthinge within the shipyard complex. The berthing spaces have been annotated on the base plots in order to simplify subsequent reporting of vessels. An arbitrary berthing space length of roughly 450 feet was selected.

The precision plots included in this report represent mathematically rectified projections of the area. They were compiled by utilizing precise comparators coupled to electronic recording devices. Identifiable image points were measured on the photography and recorded as coordinate values. Over 13,800 independent

pointings were made. The coordinate values were then processed by high speed computers which utilize a rigorous math model to perform translations, rotations and scale changes. Orbital parameters supplied the necessary data needed for these transformations. Dimensional information and a digitized tape were produced by the computer. The digitized tape was used in conjunction with an analog plotter to produce the rectified plots.

Although these plots represent the most accurate data compiled to date, this data should not be interpreted to represent an orthogonal projection. Orthogonal projections are based and projected on controlled horizontal datums, where distances, angles, and areas are independent of distortions due to ground and image height relief. The transformations performed in this area have corrected for camera induced distortions (pitch, roll, yaw) only.

All measurements have been made by the NPIC Technical Intelligence Division are considered to be accurate within hichever is greater. Horizontal accuracy due to relief displacement is considered to be accurate within ± 5 percent.

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KEY TO ANNOTATIONS OF MAJOR FACILITIES

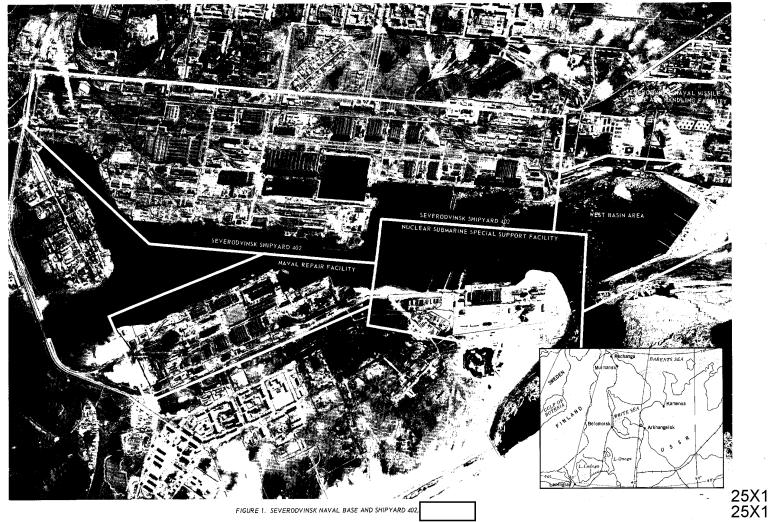
FIGURE 3		FIGURE 4		FIGURE 6		
<u>Item</u>	Subject	<u>Item</u>	Subject	179-181 Unidentified	l facility Lirways under	
1 4-5 6 12 13 14 15 18-22 23 24	Thermoelectric heat and power plant Control houses Coal dressing building Fabrication building Storage building Shop building Storage building Administration buildings Storage building Fabrication building	86 87-88 90-126 127-137 138 139 140 141 142-147	Fabrication/machine shop Unidentified buildings Storage buildings Fitting-out shops Fabrication and construction hall Storage building Shop building Winch house Storage buildings	construction 183-185 Fabrication/ 186-187 Fabrication/ 189-190 Shop building to construction 192-195 Storage building 196 Storage building 197 Shop building 198 Administration 198 Admi	n machine shops buildings ligs a building under on dings ligs and building under on dings ligs on building	
25 26-29 30-31 33 34	Shop building Fabrication/machine shops Fabrication buildings Storage building Probable foundry	FIGURE 5	<u>Subject</u>	201 Fitting-out 202 Storage buil 203 Fitting-out	ding	
35-37 38 39 40 41 42 45 47 51-54 55-60 62 64 65,68, 8,74	Shop buildings Unidentified building Storage building Febrication building Febrication building Shop building (secured) Unidentified building Shop building Submarine bull section sub-assembly building Storage building Storage buildings Unidentified facility Main construction hall Heat treatment building Febrication/machine shops Administration buildings	164 165–167 168	Radioactive waste storage/handling building Probable processing buildings Unidentified building Probable office/support building Probable office/support building Probable storage buildings Probable administration building Operations and shop building Unidentified building Possible steam pressure reducing and cooling building Unidentified buildings Probable security building Probable security building Probable security building Storage buildings	* Buildings not contained in this key are unidentified or considered to be of lesser importance than those listed.		

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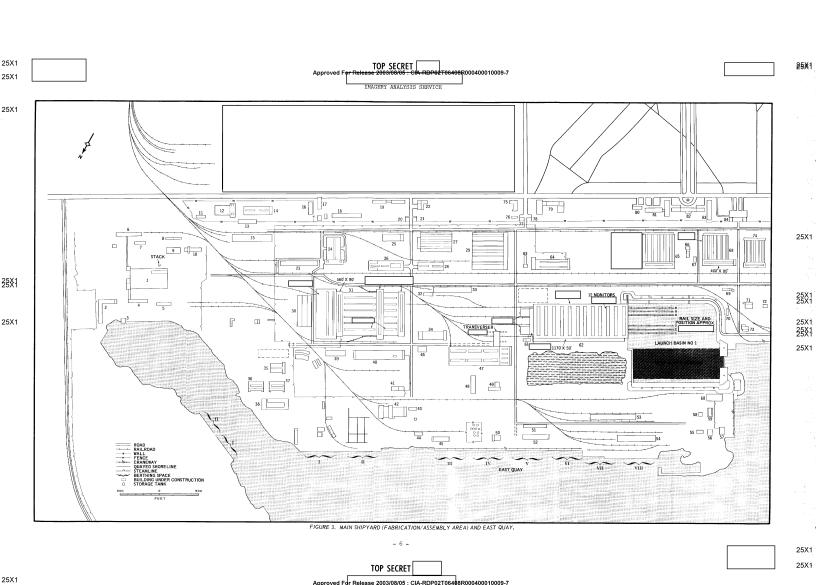
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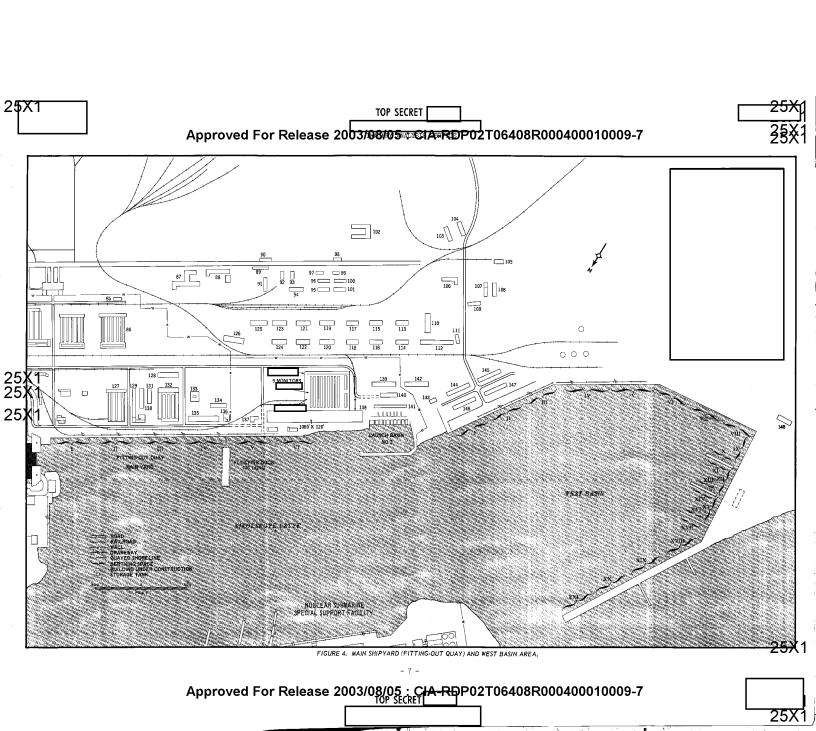
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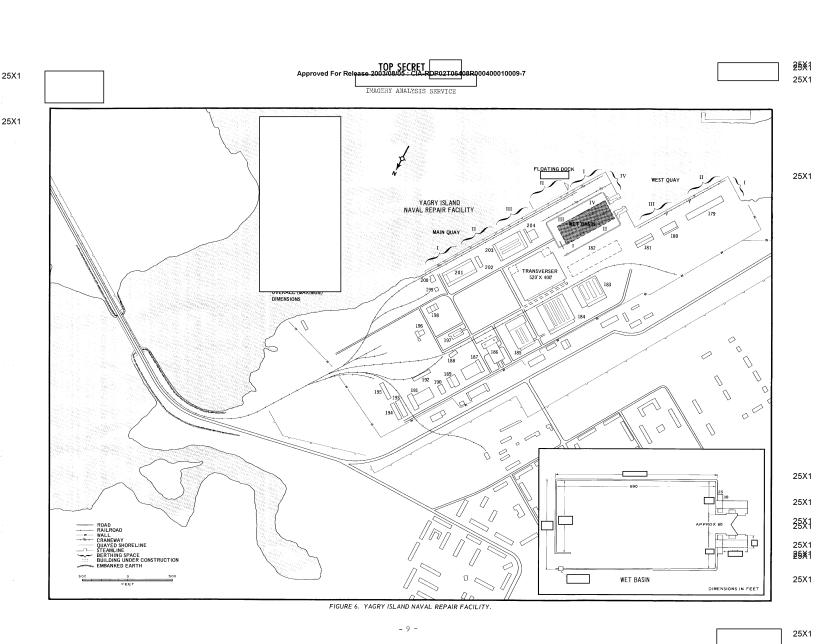
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FIGURE 5. YAGRY ISLAND NUCLEAR SUBMARINE SPECIAL SUPPORT FACILITY.

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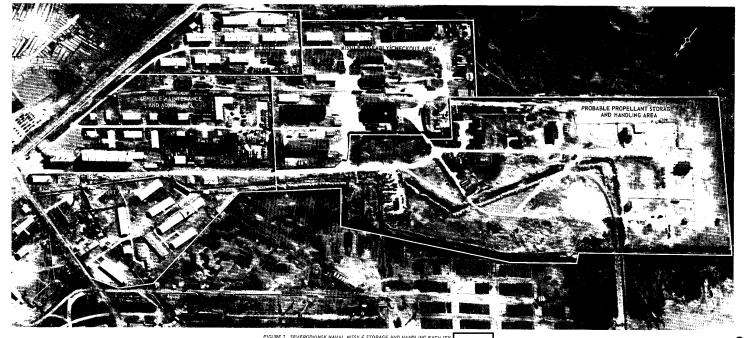
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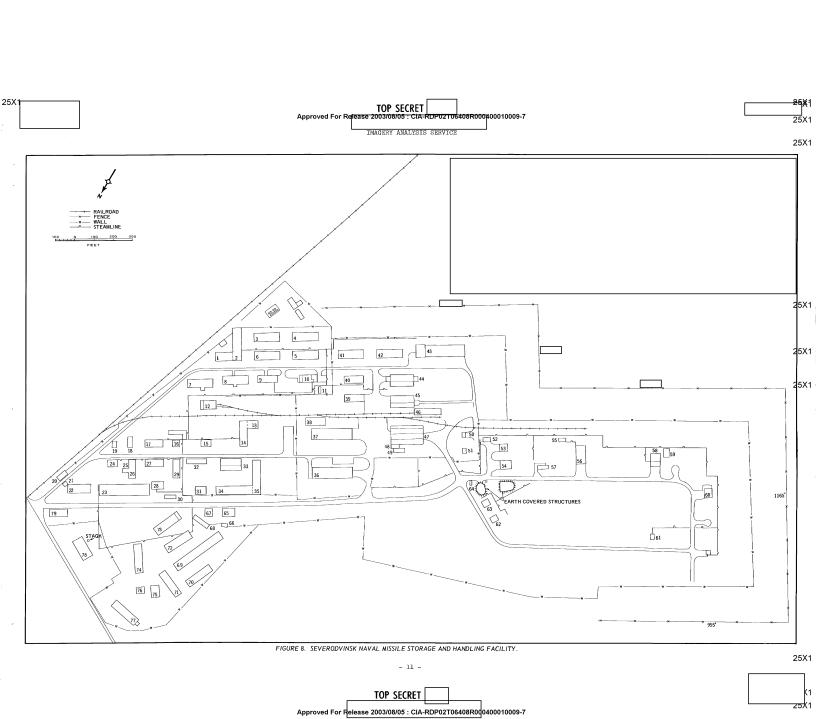
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REFERENCES Documents CIA. CIA/PIR-75118, Nuclear Submarine Special Support Facilities - Severodvinsk and Petrovka, USSR, June 1967 (TOP SECRET

Requirement

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